

Fig. 1

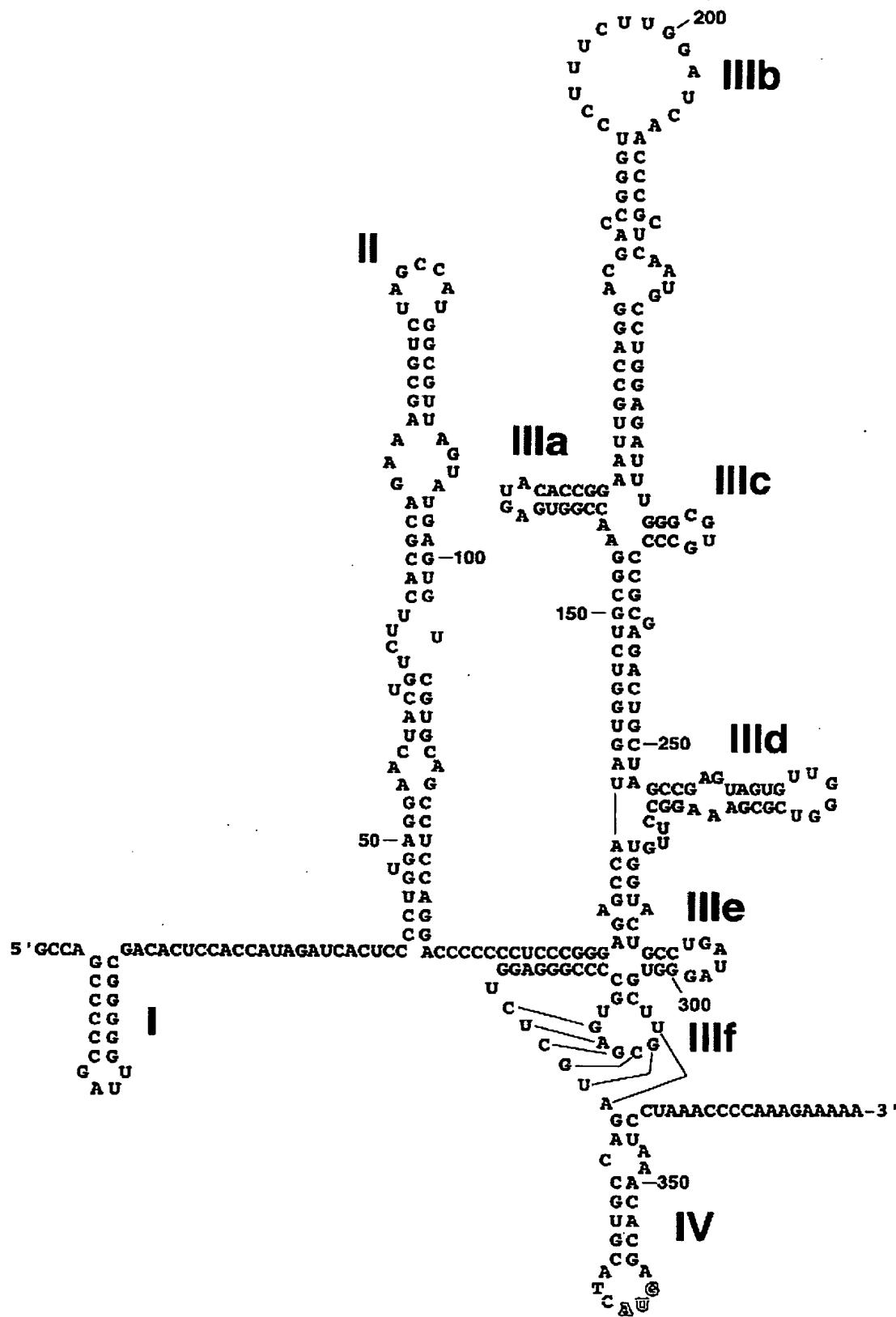


Fig. 2

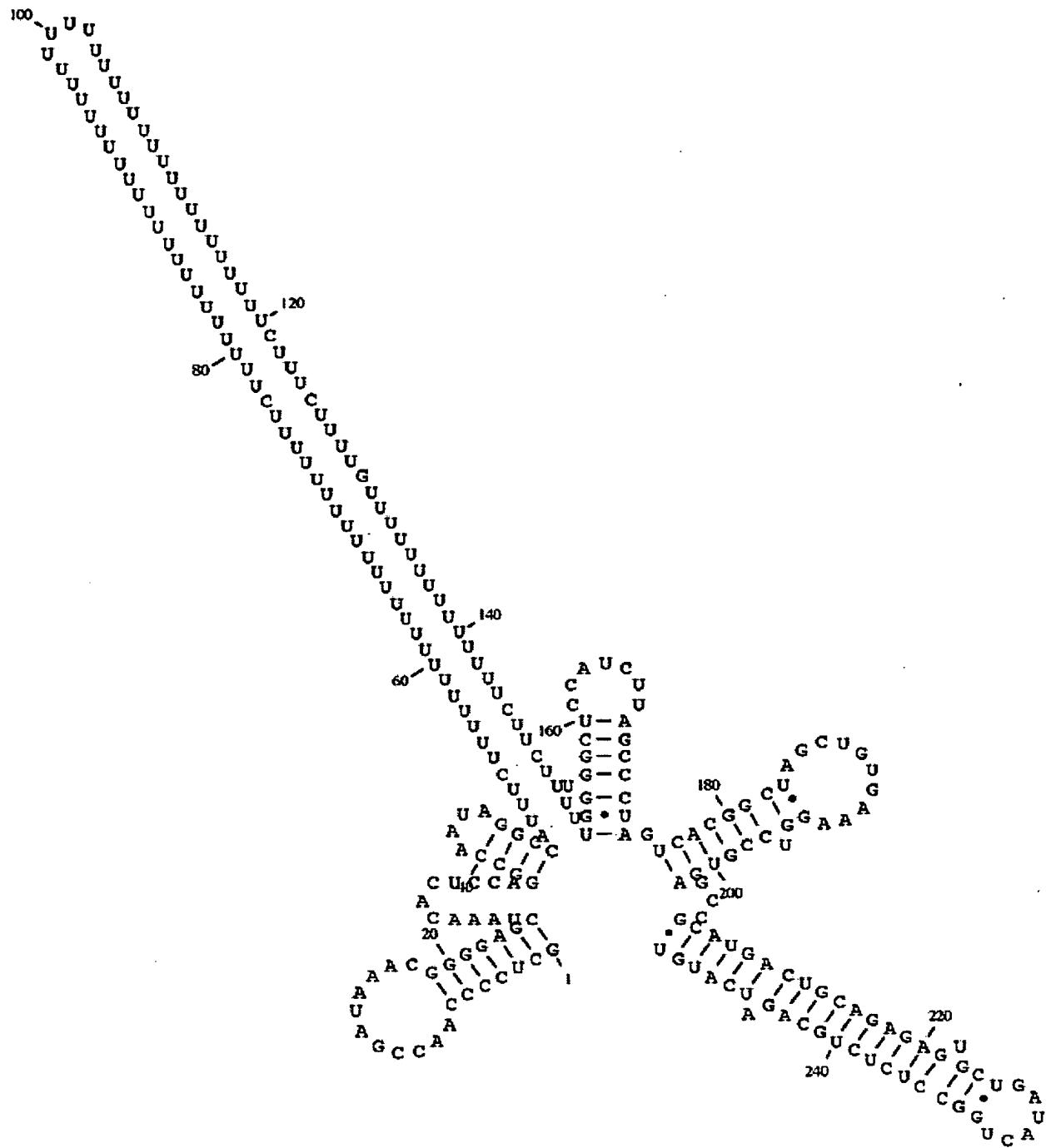


Fig. 3A

HCV-1

GCCAGCCCCCTGATGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACACTGTCTTCACGCA
 GAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGAGCCTCCAGGACCCCCCTCCCGGGAGAGCCA
 TAGTGGTCTGCCAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTCTGGATCAACCCG
 CTCAATGCCTGGAGATTGGCGTGCCTGGCAAGACTGCTAGCCGAGTAGTGTGGTCCGAAAGGCC
 TTGTGGTACTGCCTGATAGGGTCTGCGAGTGCCTGGAGGTCTCGTAGACCGTGACCATGAGCACG
 AATCCTAACCTCAAAAAAAAACAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTCCC GG TG
 GCGGTCAAGATCGTTGGTGGAGTTACTTGTGCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCAGCAG
 AAAGACTTCC (SEQ ID No.1)

HCV-BK

CGATTGGGGCGACACTCCACCATAGATCACTCCCCTGTGAGGAACACTGTCTTCACGCA
 GAGAAAGCGTC
 TAGCCATGGCGTTAGTATGAGTGTGAGCCTCCAGGACCCCCCTCCCGGGAGAGCCA
 TAGTGGTCT
 GCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTCTGGATCAACCCGCTCAATGCC
 TGGAGATTGGCGTGCCTGGCGAGACTGCTAGCCGAGTAGTGTGGTCCGAAAGGCC
 TTGTGGTAC
 TGCCTGATAGGGTCTGCGAGTGCCTGGAGGTCTCGTAGACCGTGACCATGAGCACGA
 ATCCTAA
 CCTCAAAGAAAACCAACGTAACACCAACCGCCGCCACAGGACGTCAAGTCCC
 GGGCGGTGGTCAAG
 TCGTTGGTGGAGTTACCTGTTGCCCGCGCAGGGGCCCA
 GAGGTGGGTGTGCGCGCAGGAAGACTTC
 CGAGCGGTGCG (SEQ ID No.2)

HCV-J

TTGGGGCGACACTCCACCATAGATCACTCCCCTGTGAGGAACACTGTCTTCACGCA
 GAGAAAGCGTCTAG
 CCATGGCGTTAGTATGAGTGTGAGCCTCCAGGACCCCCCTCCCGGGAGAGCCA
 TAGTGGTCTGCG
 GAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTCTGGATCAACCCGCTCAATGCC
 TGG
 AGATTGGCGTGCCTGGCGAGACTGCTAGCCGAGTAGTGTGGTCCGAAAGGCC
 TTGTGGTACTGC
 CTGATAGGGTCTGCGAGTGCCTGGAGGTCTCGTAGACCGTGACATCATGAGCACAA
 ATCCTAAACCT
 CAAAGAAAACCAACGTAACACCAACCGCCGCCACAGGACGTAA
 GAGTCCC
 GGGCGGTGGTCAAG
 TTGGTGGAGTTACCTGTTGCCCGCGCAGGGGCCCA
 GAGGTGGGTGTGCGCGCAGTAAGGAAGACTTC
 CGAGCGTCGCAA (SEQ ID No.3)

Fig. 3B

R6

GGGCCAGCCCCGATTGGGGCGACACTCCACCATAGATCACTCCCTGTGAGGAACACTGTCTCACG
 CAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCGCAGCCTCCAGGACCCCCCTCCCGGGAGAGC
 CATAGTGGTCTGCGAACCGGTGAGTACACCGGAATTGCCAGGACGACGGGTCTTCTGGATCAACC
 CGCTCAATGCCTGGAGATTGGCGTGCCCCCGCAGACTGCTAGCCGAGTAGTGTGGTGCAGAAAGG
 CCTTGTGGTACTGCCTGATAGGGTGCCTGCGAGTGCCTGGGAGGTCTCGTAGACCGTGATCATGAGCA
 CAAATCCCAAACCCAAAGAAAAACCAAACGTAACACCAACCGTCGCCACAGGACGTCAAGTTCCCGG
 TGGTGGTCAGATCGTTGGAGTTACCTGTTGCCGCGAGGGGCCAGGTTGGTGTGCGCGACT
 AGGAAGACTT **(SEQ ID No.4)**

R24

ACCCGCCCCCTAATAGGGCGACACTCCGCCATGAATCACTCCCTGTGAGGAACACTGTCTCACGCA
 GAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCGTACAGCCTCCAGGCCCCCTCCCGGGAGAGCCA
 TAGTGGTCTGCGAACCGGTGAGTACACCGGAATTGCCAGGAAAGACCGGGTCTTCTTGATAAACCG
 CTCTATGCCCGGCCATTGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGCGTTGGTTGCGAAAGGCC
 TTGTGGTACTGCCTGATAGGGTGCCTGCGAGTGCCTGGGAGGTCTCGTAGACCGTGACCATGAGCACA
 AATCCTAACCTCAAAGAAAAACCAAAGAAACACTAACCGTCGCCACAAGACGTTAAGTTCCGGCG
 GCGGCCAGATCGTTGGCGGAGTACTTGTTGCCGCTAGGGGCCAGATTGGTGTGCGCACAGCAAG
 GAAGACTTCG **(SEQ ID No.5)**

S14J

ACCCGCCCCCTAATAGGGCGACACTCCGCCATGAATCACTCCCTGTGAGGAACACTGTCTCACGCA
 GAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCGTACAGCCTCCAGGCCCCCTCCCGGGAGAGCCA
 TAGTGGTCTGCGAACCGGTGAGTACACCGGAATTGCCAGGAAAGACTGGGTCTTCTTGATAAACCG
 CTCTATGCCCGGCCATTGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGCGTTGGTTGCGAAAGGCC
 TTGTGGTACTGCCTGATAGGGTGCCTGCGAGTGCCTGGGAGGTCTCGTAGACCGTGACCATGAGCACA
 AATCCTAACCTCAAAGAAAAACCCACAGAAACACTAACCGTCGCCACAAGACGTTAAGTTCCGGCG
 GCGGCCAGATCGTTGGCGGAGTACTTGTTGCCGCGAGGGCCCTAGATTGGTGTGCGCACAGACAAG
 GAAGACTTCG **(SEQ ID No.6)**

Fig. 3C

HCJ6

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ACCCGCCCTAATAGGGCGACACTCCGCCATGAACCACACTCCCCTGTGAGGAACACTGTCTCACGCAG
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AGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCGGAAAGACTGGGTCTTCTGGATAAACCCAC
TCTATGCCCGGTATTGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGCGTTGGGTGCGAAAGGCCT
TGTGGTACTGCCTGATAGGGTGCTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACAA
ATCCTAACCTCAAAGAAAAACCAAAAGAAACACCAACCGTCCACAAGACGTTAAGTTCCGGCGG
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AAGACTTCGG (SEQ ID No.7)
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JFH1

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ACCTGCCCTAATAGGGCGACACTCCGCCATGAATCACTCCCCTGTGAGGAACACTGTCTCACGCAG
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AGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCGGAAAGACTGGGTCTTCTGGATAAACCCAC
TCTATGCCCGGCCATTGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGCGTTGGGTGCGAAAGGCCT
TGTGGTACTGCCTGATAGGGCGCTTGCAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACAA
ATCCTAACCTCAAAGAAAAACCAAAAGAAACACCAACCGTCCACAAGACGTTAAGTTCCGGCGG
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AAAACCTTCGG (SEQ ID No.8)
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JCH1

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ACCCGCCCTAATAGGGCGACACTCCGCCATGAATCACTCCCCTGTGAGGAACACTGTCTCACGCA
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TAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCGGAAAGACTGGGTCTTCTGGATAAACCCCA
CTCTATGCCCGGCCATTGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGCGTTGGGTGCGAAAGGCC
TTGTGGTACTGCCTGATAGGGTGCTTGCAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACA
AATCCTAACCTCAAAGAAAAACCCACAGAAACACTAACCGTCCACAAGACGTTAAGTTCCGGCG
CGGCCAGATCGTGGCGAGTACTTGTGCCCGCAGGGCCCTAGATTGGGTGCGCACGACAAG
GAAGACTTCG (SEQ ID No.9)
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Fig. 3D**JCH3**

ACCCGCCCTAATAGGGCGACACTCCGCCATGAATCACTCCCCTGTGAGGAACACTGTCTCACGCAG
AAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCGTACAGCCTCCAGGCCCCCCCCCTCCCGGGAGAGCCAT
AGTGGTCTGCGAACCGGTGAGTACACCGGAATTGCCGGAAGACTGGGTCTTCTTGATAAACCCAC
TCTATGCCCGGCCATTGGCGTCCCCCGCAAGACCGTAGCCGAGTAGCGTTGGGTGCGAAAGGCCT
TGTGGTACTGCCTGATAGGGTGTGAGTGCAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACAA
ATCCTAACCTCAAAGACAAACAAAAGAAACACCAAGCCGTCGCCACAAGACGTTAGGTTCCGGCG
CGGCCAGATCGTGGCGGAGTATACTGTTGCCGCGAGGGCCCCAGGTTGGGTGCGCGACAAGG
AAGACTTCGG (**SEQ ID No.10**)

HCJ8

GCCCGCCCTGATGGGGCGACACTCCGCCATGAATCACTCCCCTGTGAGGAACACTGTCTCACGCA
GAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTGTCGTACAGCCTCCAGGCCCCCCCCCTCCGGGAGAGCCA
TAGTGGTCTGCGAACCGGTGAGTACACCGGAATTACCGGAAGACTGGGTCTTCTTGATAAACCCAC
CTCTATGTCCGGTCATTGGCACGCCCGCAAGACTGCTAGCCGAGTAGCGTTGGGTGCGAAAGGCC
TTGTGGTACTGCCTGATAGGGTGTGAGTGCAGTGCCCCGGGAGGTCTCGTAGACCGTGCATCATGAGCACA
AATCCTAACCTCAAAGAAAAACAAAAGAAACACAAACCGCCGCCACAGGACGTTAAGTCCGGGTG
GCGGTCAAGATCGTGGCGGAGTTACTTGCTGCCGCGAGGGCCCCAGGTTGGGTGCGCGACAAGG
GAAGACTTCT (**SEQ ID No.11**)

Fig. 4A

Hcv-1.nc	1	--GCCAGCCCCCTGATGGGGCACACTCCACCATGAAATCACTCCCCCTGTGAGGAACCTAC	58
Hcv-bk.nc	1	--CGATTGGGGGACACTCCACCATGAAATCACTCCCCCTGTGAGGAACCTAC	49
Hcv-j.nc	1	--TTCGGGGGACACTCCACCATGAAATCACTCCCCCTGTGAGGAACCTAC	46
R6.nc	1	GGCCAGCCCCGATGCCGGGACACTCCACCATGAAATCACTCCCCCTGTGAGGAACCTAC	60
R24.nc	1	--ACCCGGCCCTTAATACCGGGGACTCCGGGACACTCCACCATGAAATCACTCCCCCTGTGAGGAACCTAC	58
S14j.nc	1	--ACCCGGCCCTTAATACCGGGGACTCCGGGACACTCCACCATGAAATCACTCCCCCTGTGAGGAACCTAC	58
Hcj6.nc	1	ACCCGGCCCTTAATACCGGGGACTCCGGGACACTCCACCATGAAATCACTCCCCCTGTGAGGAACCTAC	58
Jfh1.nc	1	--ACCGGGCCCTTAATACCGGGGACTCCGGGACACTCCACCATGAAATCACTCCCCCTGTGAGGAACCTAC	60
Jch1.nc	1	--ACCGGGCCCTTAATACCGGGGACTCCGGGACACTCCACCATGAAATCACTCCCCCTGTGAGGAACCTAC	57
Jch3.nc	1	--ACCGGGCCCTTAATACCGGGGACTCCGGGACACTCCACCATGAAATCACTCCCCCTGTGAGGAACCTAC	57
Hcj8.nc	1	--GCCGGCCCCCTGATGGGGCACACTCCGGGACACTCCACCATGAAATCACTCCCCCTGTGAGGAACCTAC	58
Hcv-1.nc	59	TGTCTTCAGGAGAAAGCGCTTAGCCATGGGTTAGTATGAGTCTGCAGCCTCCAGG	118
Hcv-bk.nc	50	TGTCTTCAGGAGAAAGCGCTTAGCCATGGGTTAGTATGAGTCTGCAGCCTCCAGG	109
Hcv-j.nc	47	TGTCTTCAGGAGAAAGCGCTAGCCATGGGTTAGTATGAGTCTGCAGCCTCCAGG	106
R6.nc	61	TGTCTTCAGGAGAAAGCGCTAGCCATGGGTTAGTATGAGTCTGCAGCCTCCAGG	120
R24.nc	59	TGTCTTCAGGAGAAAGCGCTAGCCATGGGTTAGTATGAGTCTGCAGCCTCCAGG	118
S14j.nc	59	TGTCTTCAGGAGAAAGCGCTAGCCATGGGTTAGTATGAGTCTGCAGCCTCCAGG	118
Hcj6.nc	61	CTTCAGGAGAAAGCGCTAGCCATGGGTTAGTATGAGTCTGCAGCCTCCAGG	120
Jfh1.nc	58	TGTCTTCAGGAGAAAGCGCTAGCCATGGGTTAGTATGAGTCTGCAGCCTCCAGG	117
Jch1.nc	58	TGTCTTCAGGAGAAAGCGCTAGCCATGGGTTAGTATGAGTCTGCAGCCTCCAGG	117
Jch3.nc	58	TGTCTTCAGGAGAAAGCGCTAGCCATGGGTTAGTATGAGTCTGCAGCCTCCAGG	117
Hcj8.nc	59	TGTCTTCAGGAGAAAGCGCTAGCCATGGGTTAGTATGAGTCTGCAGCCTCCAGG	118
Hcv-1.nc	119	ACCCCCCTCCCCGGAGGGAGGGCATAGTGGCTGGGAACCGGAATTGCC	178
Hcv-bk.nc	110	ACCCCCCTCCCCGGAGGGAGGGCATAGTGGCTGGGAACCGGAATTGCC	169
Hcv-j.nc	107	ACCCCCCTCCCCGGAGGGAGGGCATAGTGGCTGGGAACCGGAATTGCC	166
R6.nc	121	ACCCCCCTCCCCGGAGGGAGGGCATAGTGGCTGGGAACCGGAATTGCC	180
R24.nc	119	ACCCCCCTCCCCGGAGGGAGGGCATAGTGGCTGGGAACCGGAATTGCC	178
S14j.nc	119	CCCCCCCCTCCCCGGAGGGAGGGCATAGTGGCTGGGAACCGGAATTGCC	178
Hcj6.nc	121	CCCCCCCCTCCCCGGAGGGCATAGTGGCTGGGAACCGGAATTGCC	180
Jfh1.nc	118	CCCCCCCCTCCCCGGAGGGCATAGTGGCTGGGAACCGGAATTGCC	177
Jch1.nc	118	CCCCCCCCTCCCCGGAGGGCATAGTGGCTGGGAACCGGAATTGCC	177
Jch3.nc	118	CCCCCCCCTCCCCGGAGGGCATAGTGGCTGGGAACCGGAATTGCC	177
Hcj8.nc	119	CCCCCCCCTCCCCGGAGGGCATAGTGGCTGGGAACCGGAATTGCC	178

Fig. 4B

Hcv-1.nc	179	AGGACGACGGGTCTTCTTGGATCAACCCTCTTAAATGCCATTGGCATTTGGGGTCCCC	238
Hcv-bk.nc	170	AGGACGACGGGTCTTCTTGGATCAACCCTCTTAAATGCCATTGGCATTTGGGGTCCCC	229
Hcv-j.nc	167	AGGACGACGGGTCTTCTTGGATCAACCCTCTTAAATGCCATTGGCATTTGGGGTCCCC	226
R6.nc	181	AGGACGACGGGTCTTCTTGGATCAACCCTCTTAAATGCCATTGGCATTTGGGGTCCCC	240
R24.nc	179	GCGAAGACGGGTCTTCTTGGATCAACCCTCTTAAATGCCATTGGCATTTGGGGTCCCC	238
S14j.nc	179	GCGAAGACGGGTCTTCTTGGATCAACCCTCTTAAATGCCATTGGCATTTGGGGTCCCC	238
Hcj6.nc	181	AAGACTGGGTCAAGTCAGTGGATAAACCAACTATAGCCGGTATGCCATTGGGGTCCCC	240
Jfh1.nc	178	GCGAAGACGGGTCTTCTTGGATCAACCCTCTTAAATGCCATTGGCATTTGGGGTCCCC	237
Jch1.nc	178	GCGAAGACGGGTCTTCTTGGATCAACCCTCTTAAATGCCATTGGCATTTGGGGTCCCC	237
Jch3.nc	178	GCGAAGACGGGTCTTCTTGGATCAACCCTCTTAAATGCCATTGGCATTTGGGGTCCCC	237
Hcj8.nc	179	GCGAAGACGGGTCTTCTTGGATCAACCCTCTTAAATGCCATTGGCATTTGGGGTCCCC	238
Hcv-1.nc	239	CCGCAGACTGGTAGCCGAGTAGCTGGGTCTGGGAAAGGGCTTGTGGTACTGCCTGATA	298
Hcv-bk.nc	230	CCGGAGACTGCTAGCCGACTAGCTTGGGTCTGGGAAAGGGCTTGTGGTACTGCCTGATA	289
Hcv-j.nc	227	CCGGAGACTGCTAGCCGACTAGCTTGGGTCTGGGAAAGGGCTTGTGGTACTGCCTGATA	286
R6.nc	241	CCGGAGACTGCTAGCCGACTAGCTTGGGTCTGGGAAAGGGCTTGTGGTACTGCCTGATA	300
R24.nc	239	CCGGAGACTGCTAGCCGACTAGCTTGGGTCTGGGAAAGGGCTTGTGGTACTGCCTGATA	298
S14j.nc	239	CCGGAGACTGCTAGCCGACTAGCTTGGGTCTGGGAAAGGGCTTGTGGTACTGCCTGATA	298
Hcj6.nc	241	CAAGACTGCTAGCCGACTAGCTTGGGTCTGGGAAAGGGCTTGTGGTACTGCCTGATA	300
Jfh1.nc	238	CCGGAGACTGCTAGCCGACTAGCTTGGGTCTGGGAAAGGGCTTGTGGTACTGCCTGATA	297
Jch1.nc	238	CCGGAGACTGCTAGCCGACTAGCTTGGGTCTGGGAAAGGGCTTGTGGTACTGCCTGATA	297
Jch3.nc	238	CCGGAGACTGCTAGCCGACTAGCTTGGGTCTGGGAAAGGGCTTGTGGTACTGCCTGATA	297
Hcj8.nc	239	CCGGAGACTGCTAGCCGACTAGCTTGGGTCTGGGAAAGGGCTTGTGGTACTGCCTGATA	298
Hcv-1.nc	299	CGGTGCTTGGAGTCCGGAGCTGGGAAAGGTCTCGTAGACCCGGCACCATTGGGAAATCCCAA	358
Hcv-bk.nc	290	CGGTGCTTGGAGTCCGGAGCTGGGAAAGGTCTCGTAGACCCGGCACCATTGGGAAATCCCAA	349
Hcv-j.nc	287	CGGTGCTTGGAGTCCGGAGCTGGGAAAGGTCTCGTAGACCCGGCACCATTGGGAAATCCCAA	346
R6.nc	301	CGGTGCTTGGAGTCCGGAGCTGGGAAAGGTCTCGTAGACCCGGCACCATTGGGAAATCCCAA	360
R24.nc	299	CGGTGCTTGGAGTCCGGAGCTGGGAAAGGTCTCGTAGACCCGGCACCATTGGGAAATCCCAA	358
S14j.nc	299	CGGTGCTTGGAGTCCGGAGCTGGGAAAGGTCTCGTAGACCCGGCACCATTGGGAAATCCCAA	358
Hcj6.nc	301	TGGTGGAGTCCGGAGCTGGGAAAGGTCTCGTAGACCCGGCACCATTGGGAAATCCCAA	360
Jfh1.nc	298	GGGGCTTGGAGTCCGGAGCTGGGAAAGGTCTCGTAGACCCGGCACCATTGGGAAATCCCAA	357
Jch1.nc	298	GGGTGCTTGGAGTCCGGAGCTGGGAAAGGTCTCGTAGACCCGGCACCATTGGGAAATCCCAA	357
Jch3.nc	298	GGGTGCTTGGAGTCCGGAGCTGGGAAAGGTCTCGTAGACCCGGCACCATTGGGAAATCCCAA	357
Hcj8.nc	299	GGGTGCTTGGAGTCCGGAGCTGGGAAAGGTCTCGTAGACCCGGCACCATTGGGAAATCCCAA	358

Fig. 4C

Hcv-1.nc	359	ACCTCAAAACAAACGTAACACCAACCGTGGCCACAGGACGTCAAGTTCCGGG	418
Hcv-bk.nc	350	ACCTCAAGAAAAACCAAACGTAACACCAACGGGCCAACAGGACGTCAAGTTCCGGG	409
Hcv-j.nc	347	ACCTCAAGAAAAACCAAACGTAACACCAACGGGCCAACAGGACGTAAAGTTCCGGG	406
R6.nc	361	ACCCCCAAGAAAACCAAACGTAACACCAACGGGCCAACAGGACGTAAAGTTCCGGG	420
R24.nc	359	ACCTCAAGAAAAACCAAACGTAACACCAACGGGCCAACAGGACGTAAAGTTCCGGG	418
S14j.nc	359	ACCTCAAGAAAAACCAAACGTAACACCAACGGGCCAACAGGACGTAAAGTTCCGGG	418
Hcj6.nc	361	TCAAAGAAAACCAAACCAACCGTGGCCACAGAACGCTTAAGTTTCGGGGGG	420
Jfh1.nc	358	ACCTCAAGAAAACCAAACGTAACACCAACGGGCCAACAGAACGCTTAAGTTTCGGGG	417
Jch1.nc	358	ACCTCAAGAAAACCAAACGTAACACCAACGGGCCAACAGAACGCTTAAGTTTCGGGG	417
Jch3.nc	358	ACCTCAAGAAAACCAAACGTAACACCAACGGGCCAACAGAACGCTTAAGTTTCGGGG	417
Hcj8.nc	359	ACCTCAAGAAAACCAAACGTAACACCAACGGGCCAACAGAACGCTTAAGTTTCGGGG	418
Hcv-1.nc	419	TGGGGTAGATCGTTGGCTGGAGTTACTTTGTTGGGGCCTAGATTGGGTGT	478
Hcv-bk.nc	410	CGGTGGCTAGATCGTTGGCTGGAGTTACCTGTTGGGGCCOAGGGTGGGTGT	469
Hcv-j.nc	407	CGGTGGCTAGATCGTTGGCTGGAGTTACCTGTTGGGGCCAGGTTGGGTGT	466
R6.nc	421	TGGGGTAGATCGTTGGCTGGAGTTACCTGTTGGGGCCAGGTTGGGTGT	480
R24.nc	419	CGGGGGCAGATCGTTGGCTGGAGTTACCTGTTGGGGCCAGGTTGGGTGT	478
S14j.nc	419	CGGGGGCAGATCGTTGGCTGGAGTTACCTGTTGGGGCCAGGTTGGGTGT	478
Hcj6.nc	421	CGGGGGCAGATCGTTGGCTGGAGTTACCTGTTGGGGCCAGGTTGGGTGT	480
Jfh1.nc	418	CGGGGGCAGATCGTTGGCTGGAGTTACCTGTTGGGGCCAGGTTGGGTGT	477
Jch1.nc	418	CGGGGGCAGATCGTTGGCTGGAGTTACCTGTTGGGGCCAGGTTGGGTGT	477
Jch3.nc	418	CGGGGGCAGATCGTTGGCTGGAGTTACCTGTTGGGGCCAGGTTGGGTGT	477
Hcj8.nc	419	CGGGGGCAGATCGTTGGCTGGAGTTACCTGTTGGGGCCAGGTTGGGTGT	478
Hcv-1.nc	479	GGGGGAGGAAAGACTTC-----	500
Hcv-bk.nc	470	GGGGGAGGAAAGACTTCGAGGGGTG-----	500
Hcv-j.nc	467	GGGGGAGGAAAGACTTCGAGGGGTGCAA-----	500
R6.nc	481	GGGGGAGGAAAGACTTCGAGGGGTGCAA-----	500
R24.nc	479	GGGGAGGAAAGACTTCG-----	500
S14j.nc	479	GGGGAGGAAAGACTTCG-----	500
Hcj6.nc	481	GGGGAGGAAAGACTTCG-----	500
Jfh1.nc	478	GGGGAGGAAAGACTTCG-----	500
Jch1.nc	478	GGGGAGGAAAGACTTCG-----	500
Jch3.nc	478	GGGGAGGAAAGACTTCG-----	500
Hcj8.nc	479	GGGGAGGAAAGACTTCG-----	500

Fig. 5A**p H77J6S**

GC GTGTCTCATGCCGGCCCCGCTGGTTCTGGTTGCCTACTCCTGCTGCAGGGTAGGCATCTA
 CCTCCCTCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTCCCTGTTTTTTTT
 TTTTTTTTTTTTTCTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT
 AATGGTGGCTCCATCTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGATGACTGCAGAGA
 GTGCTGATACTGGCCTCTGCAGATCATGT **(SEQ ID No.12)**

R6

GTCCAGCTGGTCGTGGCTGGTTACAGCGGGGAGACATATATCACAGCCTGTCGTGCCGACCCCGC
 TGGTTCATGTTGCCTACTCCTACTTTCACTAGGGTAGGCATCTACCTGCTCCCAACCGATAAACGG
 GGAGCTAAACACTCCAGGCCAATAGGCCATTCTTTTTTTTTTTTTCTTCTTCTTCTTCTTCTTCTT
 TTTTTTTTTTTTTTTTTCTTCTTCTTGTGTTTTTTTTTTCTTCTTGTGGCT
 CCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGATGACTGCAGAGAGTGCTGATAC
 TGGCCTCTGCAGATCATGT **(SEQ ID No.13)**

R24L

TGGGCGGTGAAGACCAAGCTCAAACACTCCATTGCCGAAGCGCCCTGGATTTATCCAGCTGGT
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 TGGCCTACTCCTACTTTGTAGGGTAGGCCTTCTACTCCCCGCTCGTAGAGCGGCACACATTAG
 CTACACTCCATAGCTAACTGTCCCTTTTTGTGTTTTTTTTTTTTTTTTTTCTTCTTCTT
 TTTTTTTTTGTGTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT
 ATCTTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGATGACTGCAGAGATTGCCGTAACG
 GTATCTCTGCAGATCATGT **(SEQ ID No.14)**

R24S

CCTGGATTATCCAGCTGGTCACTGTCGGCGCCGGCGGGGGCGACATTATCACAGCGTCCGCGTGCC
 CGACCCCGCTTATTACTCCTGGCCTACTCCTACTTTGTAGGGTAGGCCTTCTACTCCCCGCTC
 GGTAGAGCGGCACACATTAGCTACACTCCATAGCTAACTGTCCCTTTTTTTTTTTGTGTTCTT
 CCTTCTCATTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT
 GCTGTGAAAGGTCCGTGAGCCGATGACTGCAGAGATTGCCGTAACGGTATCTCTGCAGATCATGT
(SEQ ID No.15)

Fig. 5B

HCJ6CH

TTTATCCAGTTGGTTACCGTCGGCGCCGGCGGGGGGCGACATTATCACAGCGTGTGCGTGCCCCGACCC
 CGCTTATTACTCCTAGCCTACTCCTACTTTCGTAGGGTAGGCCTCTTTACTCCCCGCTCGGTAGA
 GCGGCACACATTAGCTACACTCCATAGCTAACTGTTCTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTCCTCCTTCTACCTTCTTTACTCT
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 GAGTGCCGTA (SEQ ID No.16)

JFH1

GGACTTATCCAGTTGGTTACCGTCGGCGCCGGCGGGGGGCGACATTTTACAGCGTGTGCGCGCCCCGA
 CCCCCTCATTACTCTCGGCCTACTCCTACTTTCTGTAGGGTAGGCCTCTCCTACTCCCCGCTCGGT
 AGAGCGGCACACACTAGGTACACTCCATAGCTAACTGTTCTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTCTTTTTTTTTCCCTCTTCTCCCTCTCATCTTATTCTACTTTCTTCTT
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 CCGTAACTGGTCTCTGCAGATCATGT (SEQ ID No.17)

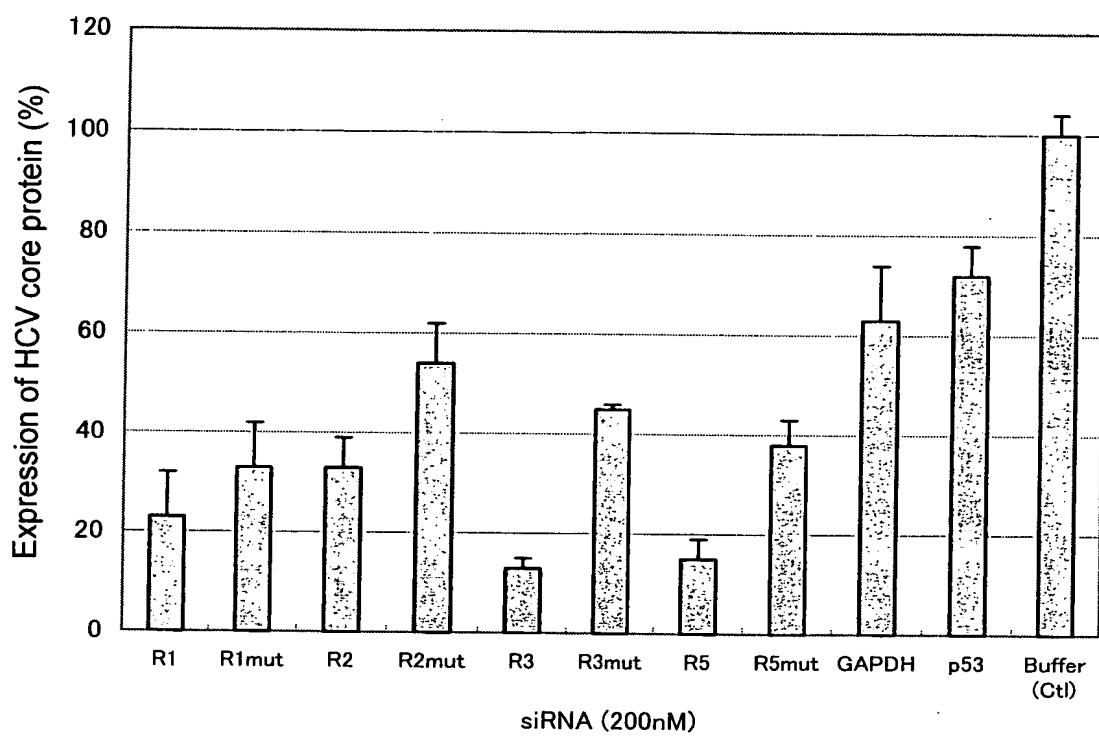
JCH1

GGATTGTCCAGTTGGTTACCGTCGGCGCCGGCGGGGGGCGACATTATCACAGCGTGTGCGTGCCCCGA
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 AGAGCGGCACACATTAGCTACACTCCATAGCTAACTGTTCTTTTTTTTTTTTTTTTTTT
 TTTTTTTCTTTTTTTTTCCCTCTTCTCCCTCTCATCTTATTCTACTTTCTTCTGGTG
 GCTCCATCTAGCCCTGGTACGGCTAGCTGTGAAAGGTCCGTGAGCCGATGACTGCAGAGAGTCCGT
 AACTGGTCTCTGCAGATCATGT (SEQ ID No.18)

2b_AB030907

TAGATTATCCGGGTGGTTACCGTGGCGCCGGCGGGGGGCGACATCTTCACAGCGTGTGCGCATGCCCG
 ACCCCGCTATTACTCCTTGCCACTCCTACTTAGCGTAGGAGTAGGCATCTTTACTCCCCGCTCGG
 TAGAGCGGCAAACCTAGCTACACTCCATAGCTAGTTCTTTTTTTTTTTTTTTTTTTGTTTT
 TTTTTTTCTCTTTCCGTATTTTTTTCCCTCTTCTGGCTCCATCTAGCCCTAGTC
 ACGGCTAGCTGTGAAAGGTCCGTGAGCCGATGACTGCAGAGAGTCCGTAACTGGTCTCTGCAGATC
 ATGT (SEQ ID No.19)

Fig. 6



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Fig. 7

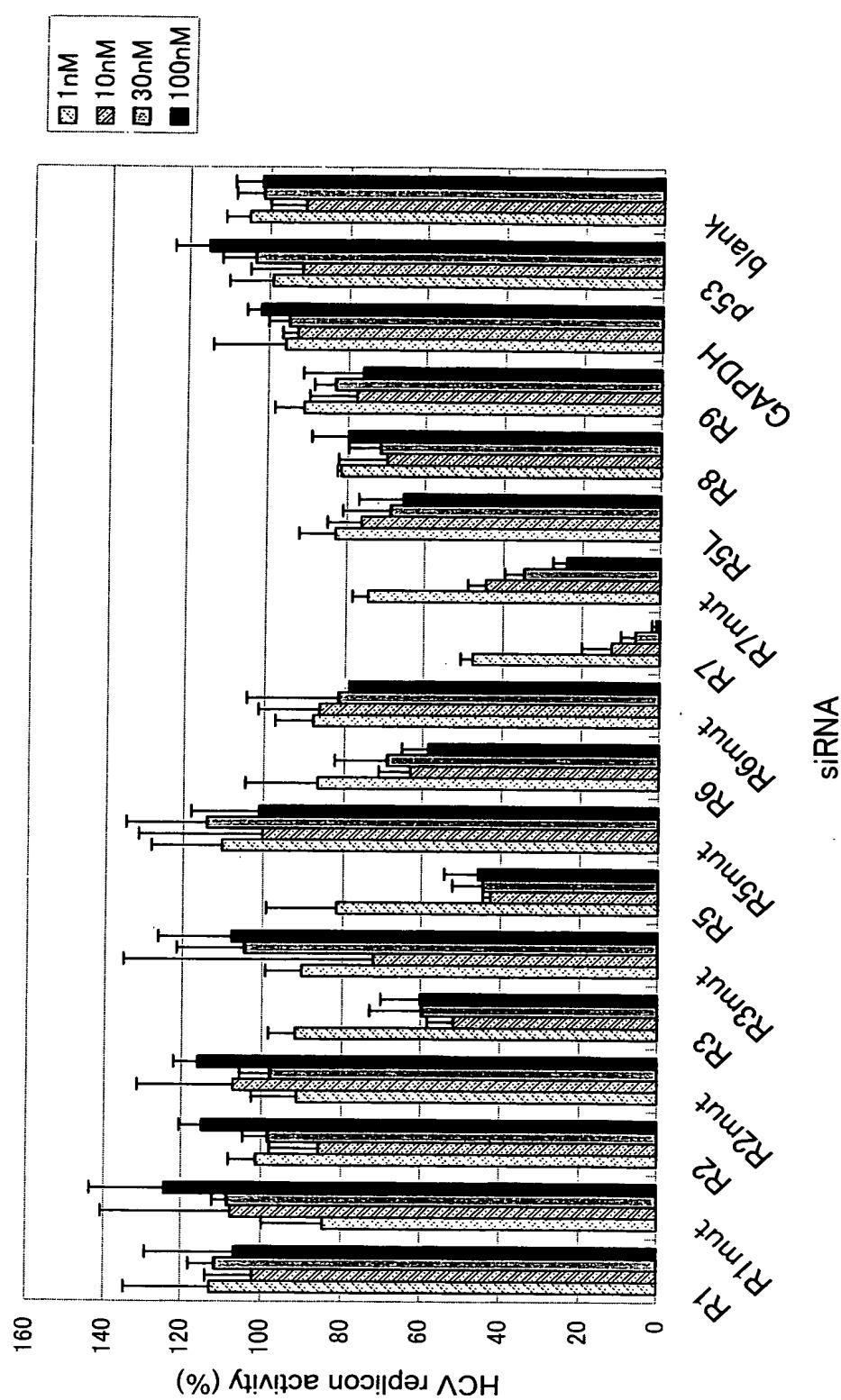


Fig. 8

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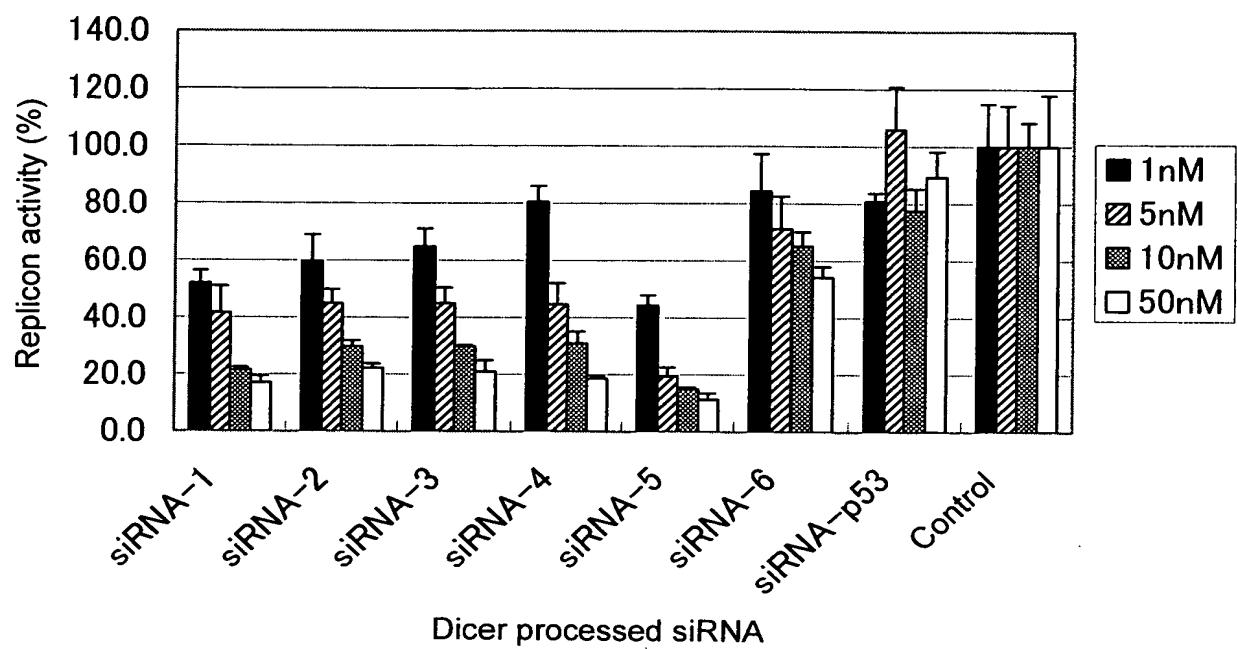


Fig. 9

